INVITATION FOR BIDS (IFB) NO. 97-131

TO

FURNISH AND DELIVER

PERIPHERAL EQUIPMENT

FOR

SILICON GRAPHICS O2 COMPUTER VIDEO/ANIMATION LAB

FOR THE

ART DEPARTMENT

UNIVERSITY OF HAWAII AT MANOA

HONOLULU, HAWAII

MAY, 1997

BOARD OF REGENTS
UNIVERSITY OF HAWAII
HONOLULU, HAWAII

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IT IS THE RESPONSIBILITY OF ALL BIDDERS TO CHECK THE TABLE OF CONTENTS TO CONFIRM THAT ALL PAGES LISTED THEREIN ARE CONTAINED IN THEIR BID PACKAGE.

BIDDER'S REMINDER:

- Bid pages 1 5, Signature page must have an authorized original signature; Evidence of Authority should be attached.
- 2. Manufacturer's literature or brochures for the items bid upon.
- 3. Tax Clearance Certificate or OPPRM Form 128, CERTIFICATION FOR TAX CLEARANCE, (see Special Provisions).

NOTICE TO BIDDERS

Bids received after the time and date fixed for opening will not be considered.

Vendors located outside the Island of Oahu, Hawaii, USA, may request an official copy of the IFB by providing the vendor's name, address, contact person, telephone number, facsimile number, and an account number, billable to the receiver, for express shipment.

Requests may be submitted via facsimile, (808) 956-2093. Direct all questions to Suzanne Tanaka, (808) 956-9485.

Kenneth P. Mortimer
President, University of
 Hawaii and Chancellor,
 University of Hawaii at Manoa

Advertised: Honolulu Advertiser

Issue of: May 30, 1997

OPPRM FORM 115 BUSINESS CLASSIFICATION CERTIFICATION STATEMENT

(See Official Document)

BID FORM

TO

FURNISH AND DELIVER

PERIPHERAL EQUIPMENT

FOR

SILICON GRAPHICS O2 COMPUTER VIDEO/ANIMATION LAB

Office of Procurement, Property and Risk Management University of Hawaii 1400 Lower Campus Road, Room 15 Honolulu, Hawaii 96822

To Whom It May Concern:

The undersigned has carefully examined the INVITATION FOR BIDS (IFB) NO. 97-131, TO FURNISH AND DELIVER PERIPHERAL EQUIPMENT FOR SILICON GRAPHICS O2 COMPUTER VIDEO/ANIMATION LAB FOR THE ART DEPARTMENT, UNIVERSITY OF HAWAII AT MANOA, HONOLULU, HAWAII, and offers to furnish and deliver the equipment to the Art Department, 2535 The Mall, Room 335, Honolulu, Hawaii 96822, in strict accordance with the true intent and meaning of the Invitation for Bids (IFB) and shall complete delivery by **July 17, 1997**, as follows:

BASIC BID

<u>Item</u>	<u>Description</u>	Qty.	<u>Unit Price</u>	Total Amount
1.	SGI O2 Video I/O Module with Digital Camera, or approved alternate, as per Technical Specifications	7	\$	\$
	Manufacturer and Model No. Offered	d -		
2.	External Hard Drive, MegaDrive E2 or approved alternate, as per Technical Specifications	1		\$
	Manufacturer and Model No. Offered	d		

<u>Item</u>	Description	Qty.	<u>Unit Price</u>	Total Amount
3A.	Digital Videocassette Recorder/ Player, Sony DSR-80 or approved alternate, as per Technical Specifications	1		\$
	Manufacturer and Model No. Offered	d -		
3B.	Super-VHS Videocassette Recorder/ Player, Sony SVO-5880 or approved alternate, as per Technical Specifications	1		\$
	Manufacturer and Model No. Offered	d -		
3C.	CD-ROM Recorder, Pinnacle Micro RCD 4X4 Recordable CD or approved alternate, as per Technical Specifications	1		\$
	Manufacturer and Model No. Offered	d -		
3D.	External DAT Recorder, Silicon Graphics O-DAT-EXT 4mm DAT Drive or approved alternate, as per Technical Specifications	1		\$
	Manufacturer and Model No. Offered	d -		
3E.	External DAT Drive, Exabyte 850XL DAT Drive or approved alternate, as per Technical Specifications	1		\$
	Manufacturer and Model No. Offered	d -		

Item	Description	Qty.	<u>Unit Price</u>	<u>Total Amount</u>
3F.	V-LAN Single Frame Video Edit Controller, Videomedia VLXi-DT Chassis or approved alternate, with Module Board, Videomania VLXi-TR Module Board or approved alternate, as per Technical Specifications	2	\$	\$
	Manufacturer and Model No. Offered	d		
	TOTA:	- L BID	FOR ITEM 3:	\$
4.	External Disk Drive for SGI, Iomega External Jaz Drive or approved alternate, as per Technical Specifications	2	\$	\$
	Manufacturer and Model No. Offered	d		
5.	Adobe Photoshop Software	- 2	\$	\$

Prices shall be f.o.b. destination and shall include all applicable taxes.

With the exception of Item 3, bidders need not bid on all items to be considered for award. Bidders must bid on all sub-items within Item 3 in order to be considered for award of that item.

Multiple bids shall not be accepted.

TAX LIABILITY

Both out-of-state and Hawaii bidders are advised that the amount bid on this solicitation is subject to the general excise tax (currently 4%) imposed by Chapter 237, Hawaii Revised Statutes (HRS) and, if tangible property is being imported into the State of Hawaii for resale, the use tax (currently 1/2%) imposed by Chapter 238, HRS. (Refer to Tax Clearance in the Special Provisions and Taxes in the General Provisions.) Bidders are therefore cautioned to consider such taxes in formulating their bids since no adjustments to the prices bid shall be allowed.

BASIS FOR AWARD

Bidders are advised that the award of this contract is contingent upon availability of funds. If funds are unavailable, the University reserves the right not to make award of this contract.

The award of contract, if awarded, shall be made to the lowest responsive and responsible bidder on **EACH ITEM**.

NOTE TO BIDDERS

An acceptable bid must conform in all material respects to this Invitation for Bids. Any of the following may be grounds for disqualification:

- 1. Taking exception to any of the specifications, terms or conditions contained in the IFB.
- 2. Placing conditions on the furnishing of solicited goods or services.
- 3. Inclusion of a quotation or order form containing additional specifications, terms or conditions.
- 4. Referencing external documents containing additional specifications, terms or conditions.

Bidders are advised that bids are evaluated as submitted and requests by bidders to delete conditions contained in their bids after bid opening cannot be considered.

In the event that the undersigned is awarded this contract and its remittance address differs from the address shown on the next page, please indicate remittance address below:

 Street	Address	or	P.	0.	Box	
City	State		$Z^{\frac{1}{2}}$	ip (Code	

SIGNATURE PAGE

(See Official Document)

CERTIFICATION FOR TAX CLEARANCE

(See Official Document)

TECHNICAL SPECIFICATIONS

This section indicates the Technical Specifications for the equipment required. The Technical Specifications listed herein are the minimum requirements and are <u>mandatory</u> for an accepted bid.

Item 1: SEVEN (7), SGI 02 Video I/O Module, SGI 02 Video I/O or approved alternate, each with the following specifications:

General Description

This item is required to allow video signals into and out of the existing SGI 02 video editing and animation computer work stations. It shall include a digital video camera matched to a video input port on the module.

Technical Specifications

- 1) Modular unit shall fit into existing work station.
- 2) Shall include digital camera and camera mount.
- 3) Shall have TWO (2) input channels and ONE (1) output channel.
- 4) Shall have S-video and composite video input/output for SGI O2 (S-video with I 2 C control).

General Description

This item shall have TWO (2) - NINE (9) gigabyte disk modules which are required for storage and operations with large video and animation files on existing SGI 02 video editing and animation computer work stations. Shall have RAID configuration and software which allows for real time video input to computer memory with minimum compression of image information.

Technical Specifications

- 1) Shall have Ultra Fast/Wide SCSI3 2 X 9 Gigabyte 7200 rpm disk drives.
- 2) Shall be compatible with existing SGI 02 video editing and animation computer work stations running Irix 6.3 or higher.
- 3) Shall have active SCSI termination.
- 4) Shall be Daisy chainable.
- 5) Shall have automatic sequential drive spin-up.
- 6) Shall have 20 MB/second throughput.
- 7) Shall have an average access time of 7msec.

- 8) Shall include Ultra to Ultra SCSI Cable for O2 system.
- 9) Shall have RAID levels 0 and 1.

ITEM 3A: ONE (1) only, Digital Videocassette Recorder/Player, Sony DSR-80 or approved alternate, with the following specifications:

General Description

This item shall be specifically designed for business and industrial applications which require reliability, durability, and high quality images. Shall have single frame editing accuracy which allows for recording digital animations one frame at a time as the computer renders each animation frame. DVCAM digital recording shall allow for highest image quality and lowest wear in single frame recording mode.

Technical Specifications

- 1) Shall have DV and DVCAM recording and playback formats.
- Shall have SDDI (Serial Digital Data Interface) input/output.
- 3) Shall have the following analog inputs/outputs: Composite I/O (x2), component I/O (x1), S-video (x1), RGB (x1) Video; Balanced XLR (x4) Audio.
- 4) Shall have AES/EBU digital audio input/output (x2).
- 5) Shall have built-in SMPTE time code generator/reader.
- 6) Shall have built-in time base correction.
- 7) Shall have high speed search (0 x + /-15) in both forward and reverse).
- 8) Shall have digital slow function (0 x +/-1/5 times normal speed) with high image quality which allows slow motion re-recording.
- 9) Shall include all cabling for existing SGI 02
 Workstations and single frame recording controllers (see
 Specifications for Item 3F).

ITEM 3B: ONE (1) only, Super-VHS Videocassette Recorder/Player, Sony SVO-5880 or approved alternate, with the following specifications:

General Description

This item shall be specifically designed for business and industrial applications which require reliability, durability, and high quality images. Single frame editing accuracy shall allow for recording digital animations one frame at a time as the computer renders each frame. S-VHS format shall be compatible with existing S-VHS editing stations in the Video/Animation Studio.

Technical Specifications

- 1) Shall have single frame editing accuracy.
- 2) Shall have built-in time base corrector.
- 3) Shall have built-in SMPTE time code generator/reader.
- 4) Shall have Dolby Noise Reduction.
- 5) Shall have an automatic head cleaner.
- 6) Shall have digital noise reducer.
- 7) Shall have digital field dropout compensator.
- 8) Shall have digital 3-line comb filter.
- 9) Shall be able to search 10X normal speed.
- 10) Shall have NTSC color.
- 11) Shall have rotary TWO (2) head helical scanning video recording.
- 12) Shall have BNC and S-Video input/output.
- 13) Shall have a minimum S-VHS horizontal resolution of FOUR-HUNDRED (400) TV Lines.
- 14) Shall include all cabling for existing O2 Workstations and Single Frame Recorder Controller (see Specifications for Item 3F).

ITEM 3C: ONE (1) only, CD-ROM Recorder, Pinnacle Micro RCD 4X4 Recordable CD or approved alternate, with the following specifications:

General Description

This item shall allow recording of compressed videos, animation, and image files, which can be read on most computers with CD-ROM drives. Shall be compatible with DAT storage systems (see Specifications for Item 3F) and existing SGI O2 video editing and animation computer work stations. CD-ROM discs recorded on this system will be used for viewing and image data storage.

<u>Technical Specifications</u>

- 1) Shall be compatible with existing SGI O2 Workstations.
- 2) Shall be compatible with DAT Drives (see Specifications for Items 6 and 7).
- 3) Shall be 4x Writer (600 KB/sec.).
- 4) Shall be 4x Reader (600 KB/sec.).
- 5) Shall have SCSI -ii interface, or better.
- 6) Shall have a ONE (1) megabyte internal buffer.
- 7) Shall have 5 Mbytes/sec synchronous/asynchronous interface transfer rate.
- 8) Shall have quad speed 800 rpm (outer) and 2400 rpm (inner).
- 9) Shall have an average seek time 220 msec.
- 10) Shall have less than ONE (1) error in 10-12 bits.
- 11) Shall include all cabling for SGI O2 stations and Items 3D and 3F below.

ITEM 3D: ONE (1) only, External DAT Recorder, Silicon Graphics P-DAT-EXT 4mm DAT Drive or approved alternate, with the following specifications:

General Description

This item will be used for storage of shorter student image files, animation, on-line video works, and works in progress. Shall allow large image data files to be stored permanently for transfer and retrieval and allow freeing of hard disk space on workstations. Shall be compatible with most computer animation studios for file transfers.

Technical Specifications

- 1) Shall be compatible with Existing SGI O2 workstations running Irix 6.3 software or higher.
- 2) Shall have 4mm DAT.
- 3) Shall have a minimum FOUR (4) gigabyte capacity.
- 4) Shall include all cabling for existing O2 Workstations and CD-Rom Recorder (see Specifications for Item 3C).

ITEM 3E: ONE (1) only, External DAT Drive, Exabyte 8505XL DAT Drive or approved alternate, with the following specifications:

General Description

This item will be used for storage and retrieval of large image files - lengthier computer animation, on-line video, and works in progress. Shall have large storage capacity for high resolution images. Shall allow for fast recording on large tape format. This item will be used to free up internal disk space for other use.

Technical Specifications

- 1) Shall have a minimum data transfer rate of 60 MB/minute.
- 2) Shall be compatible with full-high 8mm tape drives.
- 3) Shall have the ability to check compression integrity.
- 4) Shall have 160mXL media with a minimum capacity of FOURTEEN (14) gigabyte.
- 5) Shall have a minimum TEN (10) gigabyte capacity on 112m at 1MB/sec compressed.
- 6) Shall have less than one BER in 10-17 bits.
- 7) Shall be compatible with and include all cabling for existing O2 Workstations running Irix 6.3 or higher and CD-ROM recorder listed above (see Specifications for Item 3C).

ITEM 3F: TWO (2), V-LAN Single Frame Video Edit Controller, Videomedia VLXi-DT Chassis, with Module Board, VLXi-TR Module Board, or approved alternate, with the following specifications:

General Description

V-LAN is the industry standard for single-frame edit controllers. This item shall interface between computer and single-frame video recorder stated in Items 3 and 4. It shall control operation of recorder as computer renders frame-by-frame.

Technical Specifications

- 1) Shall be compatible with existing SGI O2 Workstations and video recorders (see Specifications for Items 3 and 4).
- 2) Shall have dual mode modular board with V-LAN compatible transmitter and V-LAN compatible serial receiver.
- 3) Shall have V-LAN module board and external chassis.
- 4) Shall include all cabling for SGI O2 work stations and video recorders (see Specifications for Items 3A and 3B).

ITEM 4: TWO (2), External Disk Drive for SGI, Iomega External Jaz Drive or approved alternate, each with the following specifications:

General Description

This item will be used for transferring image files to and from remote locations.

Technical Specifications

- 1) Shall be compatible with SGI 02 Workstations.
- 2) Shall have a minimum disk storage capacity of ONE (1) gigabyte.
- 3) Shall have the following average seek times: 10ms read, 12ms write.
- 4) Shall have an average sustained transfer rate of 5.4 MB/sec.
- 5) Shall have a burst transfer rate 10MB/sec.
- 6) Shall have a 256 read/write buffer.
- 7) Shall have a fast SCSC II Interface or Wide/Fast SCSI III.
- 8) Shall include cabling for one SGI O2 station, and one Macintosh.

ITEM 5: TWO (2), Adobe Photoshop Software for SGI 02

General Description

Industry standard software for editing and manipulation of graphic images.

NOTE: ALL ITEMS MUST BE COMPATIBLE WITH LIKED PERIPHERALS AND SILICON GRAPHICS 02 WORKSTATIONS RUNNING IRIX 6.3 SOFTWARE OR HIGHER.

All questions pertaining to the Technical Specifications shall be directed to Mr. Robert Rodeck, Professor, telephone (808) 956-7603.

Bidders are cautioned to review the Technical Specifications carefully and thoroughly. Objections to or requests for clarification of the specifications shall be made in writing in accordance with the General Provisions to the Office of Procurement, Property and Risk Management prior to the submittal of a bid. The submittal of a bid shall be considered as acceptance of the specifications as published.

SPECIAL PROVISIONS

1. SCOPE

The Furnishing and Delivery of Peripheral Equipment for Silicon Graphics O2 Computer Video/Animation Lab for the Art Department, University of Hawaii at Manoa, Honolulu, Hawaii, shall be in accordance with the terms and conditions of IFB No. 97-131 and the General Provisions dated **February 23, 1996** included by reference. Copies of the General Provisions are available at the Office of Procurement, Property and Risk Management, University of Hawaii, 1400 Lower Campus Road, Room 15, Honolulu, Hawaii 96822 or the General Provisions may be viewed at: http://www.state.hi.us/bids/notice03.htm

2. TECHNICAL REPRESENTATIVE OF THE PROCUREMENT OFFICER (TRPO)

The Technical Representative of the Procurement Officer is Mr. Robert Rodeck, Professor, telephone (808) 956-7603.

3. SUBMITTAL OF TECHNICAL DATA

With their bids, bidders shall submit, in duplicate, manufacturer's literature or brochures with technical data and illustrations of the equipment being offered. Technical data must demonstrate that the equipment being offered meets or exceeds the minimum requirements of the Technical Specifications. All bids will be evaluated by the information submitted at the time of bid opening; therefore, any changes/additions to the technical data should be noted. Bidders offering item(s) as specified are not required to submit literature, brochures, etc.

4. BRAND NAME OR EQUAL

The brand name and model number(s) mentioned are used in this specification as a measure of quality and performance. Any brand or manufacture of equal or better quality and performance than that specified will be considered for acceptance by the University. However, the University reserves the right to reject and deny any substitution that it may, in its discretion, deem unequal, and the findings in this regard shall be accepted by the bidder as final and binding.

5. MANUALS AND INSTRUCTIONS

The Contractor shall provide the University with operating and maintenance manuals for each piece of equipment furnished under this contract.

6. SOFTWARE LICENSE AGREEMENTS

The University will execute Software License Agreements, if necessary, as long as the terms and conditions of the License Agreements do not conflict with the terms and conditions of this Invitation for Bids. The University shall be protected from claims of copyright infringement not occasioned by University modification of the software.

7. COMPLIANCE WITH FEDERAL COMMUNICATIONS COMMISSION RULES

Computer equipment furnished herein must comply with the requirements (technical standard, labelling, emission limitations, etc.) in the Federal Communications Commission Rules.

8. SOFTWARE WARRANTY

In the event the software is not compatible with Licensees' computing equipment or does not perform as warranted by the manufacturer, Licensee reserves the right to return the software and request a refund therefor.

9. DELIVERY

Prior to delivery, the Contractor shall contact the Technical Representative to coordinate delivery of the equipment.

Delivery shall be made no later than **July 17, 1997**, to the Art Department, 2535 The Mall, Room 335, Honolulu, Hawaii 96822.

10. WARRANTY

The equipment furnished shall be new and as specified. The Contractor shall warrant that all workmanship and materials for equipment furnished under this contract is guaranteed for a period of ONE (1) year from the date of acceptance. The Contractor shall replace and/or repair any defective workmanship and/or materials at no cost to the University during the period of warranty (including parts, labor, and shipping and all associated costs), provided such defects are not due to abuse or negligence on the part of the University.

11. PAYMENT

The Contractor shall be remunerated upon submission of a properly executed original invoice and one copy, indicating the contract number, to College of Arts and Humanities, 2500 Campus Road, Room 101, Honolulu, Hawaii 96822, no later than THIRTY (30) consecutive calendar days following submission of invoice or the acceptance of equipment.

12. TAX CLEARANCE FOR CONTRACTS

In accordance with Section 103-53, HRS, bidders shall submit with their bid packages, <u>original</u> tax clearances from the State of Hawaii Department of Taxation and the Internal Revenue Service. In the event bidders are unable to obtain a tax clearance by mail in time to include it with their bid packages, bidders may submit a completed OPPRM Form 128, CERTIFICATION FOR TAX CLEARANCE, in place of the DOTAX Form A-6, with their bid packages. However, an original tax clearance must be provided before contract award. Tax clearances obtained shall certify that all tax returns due have been filed, and all taxes, interest, and penalties levied or accrued under the provisions of Title 14 that are administered by the State of Hawaii Department of Taxation and under the Internal Revenue Code against the bidder, have been paid. This shall apply to all contracts, whether with Hawaii bidders, out-of-state bidders, or nonprofit organizations.

This shall not apply to bidders if the State of Hawaii Department of Taxation certifies that the bidder is in good standing under a plan in which delinquent taxes are being paid to the State of Hawaii Department of Taxation (and the Internal Revenue Service, if applicable) in installments.

Offers that are not accompanied by original tax clearances or OPPRM Form 128, CERTIFICATION FOR TAX CLEARANCE, may be considered as non-responsive and may be rejected.

Any questions pertaining to tax clearances may be addressed to the following:

- a. Internal Revenue Service, Compliance Division LTC 300 Ala Moana Boulevard, #50089
 Honolulu, Hawaii 96850-4922
 Telephone No.: (808) 541-1160
- b. Department of Taxation
 State of Hawaii
 Oahu District Office
 P.O. Box 259
 Honolulu, Hawaii 96808-0259
 Telephone No.: (808) 587-4242
 Toll-Free: 1-800-222-3229

13. TAX CLEARANCE FOR FINAL PAYMENT

General Provision 7.2 entitled <u>Tax Clearance</u>, is hereby deleted and shall be replaced by the following:

TAX CLEARANCE FOR FINAL PAYMENT

In accordance with Section 103-53, HRS, final payment for the settlement of the contract will not be made by the University until the Contractor has submitted to the University original tax clearances from the State of Hawaii Department of Taxation and the Internal Revenue Service. Tax clearance shall certify that all tax returns due have been filed, and all taxes, interest, and penalties levied or accrued under the provisions of Title 14 that are administered by the State of Hawaii Department of Taxation and under the Internal Revenue Code against the Contractor have been paid.

Notwithstanding Sections 40-57 and 40-58, HRS, if a Contractor fails to provide the original tax clearances within SIX (6) months of the notice of final settlement or completion date of the contract, the University shall assign the final settlement payment in an amount not to exceed the tax liability to the State of Hawaii Department of Taxation or Internal Revenue Service, provided that the State of Hawaii Department of Taxation may first offset its tax debt against the sum owed to the Contractor. This shall apply to all contracts whether with Hawaii vendors, out-of-state vendors, or nonprofit organizations.

The foregoing shall not apply to the Contractor if the State of Hawaii Department of Taxation certifies that the Contractor is in good standing under a plan in which delinquent taxes are being paid to the State of Hawaii Department of Taxation (and the Internal Revenue Service, if applicable) in installments.

Any questions pertaining to tax clearances may be addressed to the following:

- a. Internal Revenue Service, Compliance Division LTC 300 Ala Moana Boulevard, #50089 Honolulu, Hawaii 96850-4922 Telephone No.: (808) 541-1160
- b. Department of Taxation
 State of Hawaii
 Oahu District Office
 P.O. Box 259
 Honolulu, Hawaii 96808-0259
 Telephone No.: (808) 587-4242
 Toll-Free: 1-800-222-3229

14. <u>LIQUIDATED DAMAGES</u>

Time being an essential part of this contract, in case of failure on the part of the Contractor to deliver the equipment within the time specified and agreed upon, liquidated damages per calendar day shall be ONE HUNDRED FIFTY DOLLARS (\$150.00) for each day's delay after the date agreed upon. The findings of the University shall be accepted by the parties hereto as final; but, any allowance of time and remission of charges shall, in no other manner, affect the rights and obligations of the parties under this contract.